High Bay PIR Presence / Absence Detector (317)

The 317 High Bay PIR Presence / Absence Detector, as part of a Helvar lighting control system, provides automatic control of lighting loads in buildings and interior spaces with high ceilings. The 317 is typically installed in warehouses and factories, and is used in other applications where mounting heights are too high for standard sensors.

The detector uses a high sensitivity PIR (passive infra-red) sensor in a precision dome lens, which enable the 317 to reliably detect movement over large areas. Vertical mounting heights up to 15 m can be accommodated. As part of a Helvar lighting network, it can switch on lights when a space is occupied, and dim (if controllable lighting loads are installed) and switch off when the space is vacated.

The detection area can be customised (in slot-shaped or radial patterns) using a highly innovative clip-on masking shield. The 2-part mask is supplied as standard with the sensor.

The 317 can be flush-fitted into ceilings that have sufficient void space above, or it can be mounted directly to a solid ceiling or slab using a surface mount box (order code SBB-A, ordered separately).

As with all the other Helvar system sensors, the 317 is fully compatible with Helvar's lighting systems and configuration software, Designer™ and Digidim Toolbox™: once connected to a Helvar DALI network and lighting control system, the software automatically detects the unit which can then be programmed with the required functions.


Key features

- Controls lighting loads based on presence / absence detection
- For mounting on high ceilings
- Fitted into ceiling tiles (or false ceiling), or surface mounted
- Clip-on masks to customise the detection area
- Simple connection and integration into a Helvar DALI control network
- Programmable in Designer™ and Digidim Toolbox™
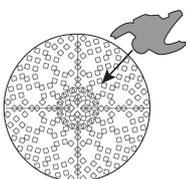- Sensitivity can be adjusted by remote control handset

Detection area
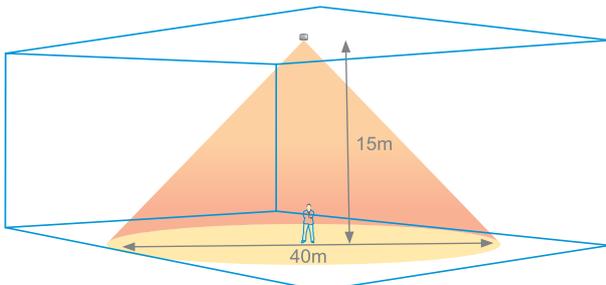
Walk across
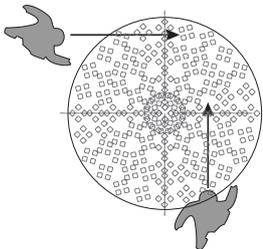
Height	Range diameter
15 m	40 m
10 m	26 m
6 m	16 m
3 m	9 m

Walk towards

Height	Range diameter
15 m	30 m
10 m	20 m
6 m	12 m
3 m	8 m

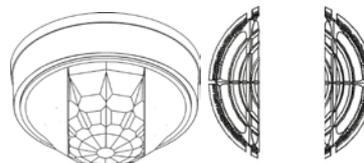*Helvar 317 High Bay PIR Presence/Absence Detector: Datasheet*

Detection area masking

Two clip-on shielding masks are supplied with the 317. Each can cover half of the sensor lens. Lateral or radial strips can be cut out of the masks to customise the detection area.
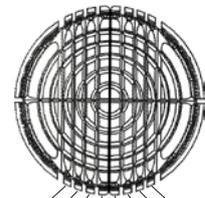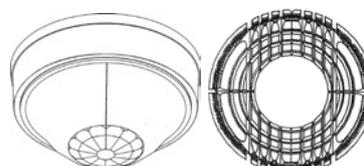

Slots: 1 2 3 4 4 3 2 1

Aisles / corridors

Slot number	Masking shield approx. % coverage
1	45%
2	30%
3	20%
4	10%

Narrow areas

Diameter number: 1 2 3 4 5 5 4 3 2 1

Diameter number	Masking shield approx. % coverage
1	90%
2	65%
3	45%
4	35%
5	20%

Technical Data

Connections

DALI:	Removable connector block
	Wire size: 0.5 mm² - 1.5 mm²
	Solid or stranded
Cable rating:	All cables must be mains rated

Power

DALI Supply Input:	13 V to 22.5 V
DALI Consumption:	20 mA

Sensors

Presence detector:	PIR: Passive infra-red presence detector
Infra-red receiver:	For remote control commands

Remote Control Functions

Infrared remote control:	Sensitivity adjustment; Reset default sensitivity settings

Mechanical Data

Mounting hole diameter:	64 mm
Bezel diameter:	88 mm
Recommended clearance depth: (incl. 50 mm for cabling)	80 mm (without protective cover); 100 mm (with protective cover)
Material (casing):	Flame retardant ABS and PC/ABS
Finish / Colour:	Matt / White
IP rating:	IP 40 without gasket IP 44 with gasket
Weight:	120 g
Gasket:	Silicone ingress protection gasket (not compatible with surface mount box SBB-A)
Masks:	2 adaptable masks included, each covering half of the sensor lens.

Operating Conditions

Ambient Temperature:	10ºC to 35ºC
Relative Humidity:	Max 90%, non-condensing
Storage Temperature:	-10°C to 70°C

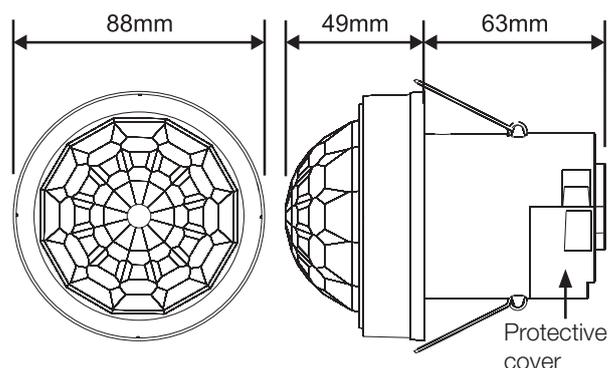### Conformity and Standards

EMC:	2004/108/EEC
LVD:	2006/95/EEC
Environment:	Complies with WEEE and RoHS directives

Connections

DALI +
DALI −

Dimensions

88mm   49mm   63mm

Protective cover
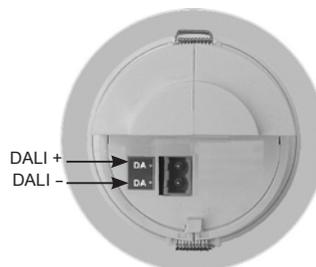
Surface mount box dimensions

Note: order the SBB-A surface mount box separately.

50mm   65mm
60mm   76mm   73mm

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